

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions, of claims in the application:

LISTING OF CLAIMS

CLAIMS

What is claimed is:

- 1 1. (Cancelled).
- 1 2. (Currently amended) A method of building a web site, the method comprising the
2 steps of:
3 ~~creating a first data structure holding data indicating a first arrangement of~~
4 ~~components, the first arrangement associated with a first type of web site;~~
5 presenting a user with a series of one or more user interfaces including controls for
6 modifying ~~the~~ a template that defines a first arrangement of components for
7 a template web site;
8 receiving input from the user in response to user interaction with the controls on
9 the series of one or more interfaces; ~~and~~
10 ~~in response to the input from the user, automatically performing the steps of~~
11 creating a user site ~~data structure~~ XML file holding data indicating a modified
12 arrangement of components based on the input from the user; ~~[[,]] and~~
13 causing a web site building component to automatically build the web site based
14 on the user site XML file,
15 wherein the web site building component builds the web site by performing the
16 steps of:

17 calling routines to create, within a database, database objects for storing
18 and retrieving properties of components, of the web site, that are
19 specified in the user site XML file,
20 calling routines to load information from the user site XML file into said
21 database objects; and
22 ~~building the web site based on the data in the user site data structure,~~
23 ~~wherein said step of building the web site further including at least~~
24 ~~translating data in the user site data structure to commands to cause~~
25 ~~creation, within a database system, of database objects for forming~~
26 ~~one or more web site pages according to the modified arrangement;~~
27 and
28 executing a routine to form one of the web site pages based on the database objects
29 in response to receiving a request for the page.

1 3. (Original) The method of claim 2, said step of building the web site further
2 comprising translating data in the user site data structure to commands to cause
3 creation of the database, before causing creation of the database objects.

1 4. (Cancelled).

1 5. (Currently amended) The method of claim [[1]]2, wherein
2 the method further comprises the step of creating an extensible stylesheet language
3 transformation (XSLT) document for forming a document displayable by a
4 web browser process operated by the user; and

5 said step of presenting the user with a series of one or more user interfaces further
6 comprises forming the document displayable by the web browser based on
7 the first data structure and the XSLT document.

1 6. (Previously presented) The method of claim 5, wherein the document displayable
2 by the web browser is a hypertext markup language (HTML) document.

1 7. (Previously presented) The method of claim 2, wherein the user site data structure
2 is an extensible markup language (XML) document.

1 8. (Currently amended) The method of claim [[1]]2, wherein the user site data
2 structure is an XML document.

1 9. (Original) The method of claim 8, wherein XML element types used in the first
2 data structure and XML element types used in the user site data structure are
3 defined in a shared document type definition (DTD) document.

1 10. (Currently amended) The method of claim [[1]]2, wherein a particular component
2 included in the first arrangement of components is a component that is dynamically
3 generated at a second web site.

1 11. (Original) The method of claim 10, wherein:
2 the modified arrangement of components includes the particular component, and
3 the web site includes a link to the second web site for generating the particular
4 component.

1 12. (Currently amended) The method of claim [[1]]2, further comprising the step of:
2 creating a plurality of component data structures, each component data structure
3 holding data indicating one or more properties of a component for the first
4 arrangement of components,
5 wherein
6 the first data structure includes one or more references to one or more
7 component data structures of the plurality of component data
8 structures, and
9 the user site data structure includes one or more references to one or more
10 component data structures of the plurality of component data
11 structures.

1 13. (Currently amended) The method of claim [[1]]2, further comprising the step of:
2 creating a second data structure holding data indicating a second arrangement of
3 components, the second arrangement associated with a second type of web
4 site;
5 wherein the series of one or more user interfaces further include controls for
6 selecting one of the first arrangement of components and the second
7 arrangement of components.

1 14. (Cancelled).

1 15. (Cancelled).

16. (Cancelled).

17. (Currently amended) A method of building a web site, the method comprising the
steps of:
creating a first data structure holding data indicating one or more adjustable
properties of a component for a page for the web site;
presenting a user with a series of one or more user interfaces including controls for
determining one or more values corresponding to the one or more
adjustable properties;
receiving user input indicating the one or more values in response to user
interaction with the controls on the series of one or more interfaces; and
in response to the user input, automatically performing the step of building the
component in the web site based on the one or more values;
wherein said step of building the component in the web site includes translating
data in the second data structure to commands to cause creation, within a
database system, of one or more database objects to support the
component.~~The method of claim 14, and~~
wherein said step of building the component in the web site further comprises
~~comprising~~translating data in the second data structure to commands to
cause creation of the database, before causing creation of the one or more
database objects.

- 1 18. (Currently amended) The method of claim ~~[[14]]~~17, wherein the first data structure
2 is a extensible markup language (XML) document.
- 1 19. (Original) The method of claim 18, wherein
2 the method further comprises the step of creating an extensible stylesheet language
3 transformation (XSLT) document for forming a document displayable by a
4 web browser process operated by the user; and
5 said step of presenting the user with a series of one or more user interfaces further
6 comprises forming the document displayable by the web browser based on
7 the first data structure and the XSLT document.
- 1 20. (Previously presented) The method of claim 19, wherein the document displayable
2 by the web browser is a hypertext markup language (HTML) document.
- 1 21. (Currently amended) The method of claim ~~[[15]]~~17, wherein said step of building
2 the component in the web site further comprises creating a second data structure
3 holding data indicating the one or more values for the one or more adjustable
4 properties of the component based on the user input, and wherein the second data
5 structure is an extensible markup language (XML) document.
- 1 22. (Original) The method of claim 18, wherein XML element types used in the first
2 data structure are defined in a first document type definition (DTD) document.
- 1 23. (Previously presented) The method of claim 22, wherein:

2 the method further comprises the step of distributing a copy of the first DTD
3 document to a supplier of a component for web pages; and
4 said step of creating the first data structure further comprises
5 receiving a supplier XML document from the supplier of the component
6 including XML element types defined in the first DTD, and
7 generating the data indicating one or more adjustable properties based on
8 supplier data in the supplier XML document.

1 24. (Currently amended) The method of claim [[14]]17, wherein the component is
2 generated at a second web site.

1 25. (Original) The method of claim 24, wherein:
2 the step of building the component in the web site comprises including a link to the
3 second web site in the web site, and
4 the link includes data indicating the one or more values corresponding to the one
5 or more adjustable parameters.

1 26. (Cancelled).

1 27. (Currently amended) A computer-readable medium carrying one or more
2 sequences of instructions for building a web site, wherein execution of the one or
3 more sequences of instructions by one or more processors causes the one or more
4 processors to perform the steps of~~A computer-readable medium for building a web~~
5 ~~site, the medium carrying:~~

6 ~~a first data structure holding data indicating a first arrangement of components, the~~
7 ~~first arrangement associated with a first type of web site; and~~
8 ~~one or more sequences of instructions wherein execution of the one or more~~
9 ~~sequences of instructions by one or more processors causes the one or more~~
10 ~~processors to perform the steps of~~
11 presenting a user with a series of one or more user interfaces including controls for
12 modifying ~~the~~ a template that defines a first arrangement of components for
13 a template web site;
14 receiving input from the user in response to user interaction with the controls on
15 the series of one or more interfaces; ~~and~~
16 ~~in response to the input from the user, automatically performing the steps of~~
17 creating a user site ~~data structure~~ XML file holding data indicating a modified
18 arrangement of components based on the input from the user; ~~[[,]]~~ and
19 causing a web site building component to automatically build the web site based
20 on the user site XML file,
21 wherein the web site building component builds the web site by performing the
22 steps of:
23 calling routines to create, within a database, database objects for storing
24 and retrieving properties of components, of the web site, that are
25 specified in the user site XML file,
26 calling routines to load information from the user site XML file into said
27 database objects; and

28 ~~building the web site based on the data in the user site data structure,~~
29 ~~wherein said step of building the web site further including at least~~
30 ~~translating data in the user site data structure to commands to cause~~
31 ~~creation, within a database system, of database objects for forming~~
32 ~~one or more web site pages according to the modified arrangement;~~
33 ~~and~~
34 executing a routine to form one of the web site pages based on the database
35 objects in response to receiving a request for the page.

1 28. (Original) The computer-readable medium of claim 27, said step of building the
2 web site further comprising translating data in the user site data structure to
3 commands to cause creation of the database, before causing creation of the
4 database objects.

1 29. (Cancelled).

1 30. (Currently amended) The computer-readable medium of claim ~~[[26]]~~27, wherein:
2 the computer-readable medium further carries an extensible stylesheet language
3 transformation (XSLT) document for forming a document displayable by a
4 web browser process operated by the user; and
5 said step of presenting the user with a series of one or more user interfaces further
6 comprises forming the document displayable by the web browser process
7 based on the first data structure and the XSLT document.

- 1 31. (Previously presented) The computer-readable medium of claim 30, wherein the
2 document displayable by the web browser is a hypertext markup language (HTML)
3 document.
- 1 32. (Previously presented) The computer-readable medium of claim 27, wherein the
2 user site data structure is a extensible markup language (XML) document.
- 1 33. (Previously presented) The computer-readable medium of claim 27, wherein the
2 user site data structure is an XML document.
- 1 34. (Original) The computer-readable medium of claim 33, wherein XML element
2 types used in the first data structure and XML element types used in the user site
3 data structure are defined in a shared document type definition (DTD) document.
- 1 35. (Currently amended) The computer-readable medium of claim ~~[[26]]~~27, wherein a
2 particular component included in the first arrangement of components is a
3 dynamically generated at a second web site.
- 1 36. (Original) The computer-readable medium of claim 35, wherein:
2 the modified arrangement of components includes the particular component, and
3 the web site includes a link to the second web site for generating the particular
4 component.
- 1 37. (Currently amended) The computer-readable medium of claim ~~[[26]]~~27, wherein:

2 the computer-readable medium further holds a plurality of component data
3 structures, each component data structure holding data indicating one or
4 more properties of a component for the first arrangement of components,
5 the first data structure includes one or more references to one or more component
6 data structures of the plurality of component data structures, and
7 the user site data structure includes one or more references to one or more
8 component data structures of the plurality of component data structures.

1 38. (Currently amended) The computer-readable medium of claim ~~[[26]]~~27, wherein:
2 the computer-readable medium further carries a second data structure holding data
3 indicating a second arrangement of components, the second arrangement
4 associated with a second type of web site; and
5 the series of one or more user interfaces further include controls for selecting one
6 of the first arrangement of components and the second arrangement of
7 components.

1 39. (Cancelled).

1 40. (Cancelled).

1 41. (Cancelled).

1 42. (Currently amended) A computer-readable medium for building a web site, the
2 medium carrying:
3 a first data structure holding data indicating one or more adjustable properties of a
4 component for a page for the web site; and

5 one or more sequences of instructions wherein execution of the one or more
6 sequences of instructions by one or more processors causes the one or more
7 processors to perform the steps of
8 presenting a user with a series of one or more user interfaces including
9 controls for determining one or more values corresponding to the
10 one or more adjustable properties,
11 receiving user input indicating the one or more values in response to user
12 interaction with the controls on the series of one or more interfaces,
13 and
14 in response to the user input, automatically performing the step of building
15 the component in the web site based on the one or more values;
16 wherein said step of building the component in the web site includes translating
17 data in the second data structure to commands to cause creation, within a
18 database system, of one or more database objects to support the
19 component~~The computer-readable medium of claim 39, and~~
20 wherein said step of building the component in the web site further comprises
21 ~~comprising~~ translating data in the second data structure to commands to
22 cause creation of the database, before causing creation of the one or more
23 database objects.

1 43. (Currently amended) The computer-readable medium of claim [[39]] 42, wherein
2 the first data structure is an extensible markup language (XML) document.

1 44. (Original) The computer-readable medium of claim 43, wherein
2 the computer-readable medium further carries an extensible stylesheet language
3 transformation (XSLT) document for forming a document displayable by a
4 web browser process operated by the user; and
5 said step of presenting the user with a series of one or more user interfaces further
6 comprises forming the document displayable by the web browser based on
7 the first data structure and the XSLT document.

1 45. (Original) The computer-readable medium of claim 44, wherein the document
2 displayable by the web browser is an hypertext markup language (HTML)
3 document.

1 46. (Currently amended) The computer-readable medium of claim ~~[[40]]~~ 42, wherein
2 said step of building the component in the web site further comprises creating a
3 second data structure holding data indicating the one or more values for the one or
4 more adjustable properties of the component based on the user input, and wherein
5 the second data structure is an extensible markup language (XML) document.

1 47. (Original) The computer-readable medium of claim 43, wherein XML element
2 types used in the first data structure are defined in a first document type definition
3 (DTD) document.

1 48. (Previously presented) The computer-readable medium of claim 47, the one or
2 more sequences of instructions further causing the one or more processors to
3 perform the steps of:
4 distributing a copy of the first DTD document to a supplier of a component for web
5 pages;
6 receiving a supplier XML document from the supplier of the component including
7 XML element types defined in the first DTD; and
8 generating the data indicating one or more adjustable properties based on supplier
9 data in the supplier XML document.

1 49. (Currently amended) The computer-readable medium of claim ~~[[39]]~~ 42, wherein
2 the component is generated at a second web site.

1 50. (Original) The computer-readable medium of claim 49, wherein:
2 the step of building the component in the web site comprises including a link to the
3 second web site in the web site, and
4 the link includes data indicating the one or more values corresponding to the one
5 or more adjustable parameters.

1 51. (Original) A web site building appliance for building a web site, the appliance
2 comprising:
3 a processor;
4 a computer readable medium carrying a web site wizard including

5 a template holding data indicating a first arrangement of components, the
6 first arrangement associated with a first type of web site,
7 instructions to configure the processor for
8 presenting a user with a series of one or more user interfaces
9 including controls for modifying the first arrangement of
10 components,
11 receiving input from the user in response to user interaction with the
12 controls on the series of one or more interfaces indicating a
13 modified arrangement, and
14 in response to the input from the user, automatically building the
15 web site based on the modified arrangement; and
16 a special purpose operating system whose features and configuration are dictated
17 by the web site wizard and supporting program components.

1 52. (Original) The appliance of claim 51, the instructions further configuring the
2 processor to call a separate database appliance on a local appliance network during
3 the step of creating a database.

1 53. (Original) The appliance of claim 51, the instructions further configuring the
2 processor to send a request to a separate web site server appliance on a local
3 appliance network during the step of building a web site.